

CLAIMS

WHAT I CLAIM AS MY INVENTION IS:

1. The invention of this shallow soil invading disk (see Fig. 1, 2 and 3) with protruding lugs on the underside, which is designed to rotate horizontally and allows the operator to weed in close, very close to plants.
2. This soil invading disk that only penetrates the soil to the depth of the attached lugs. (Fig. 2 and 3, line 14) Lugs may be from ½-inch long to any practical length as needed. The standard lug length is 1-1/8-inch long.
3. This soil invading disk can be adapted to fit various power driven tools (not shown). Attachment is by a center hole (Fig. 1, line 16) or by a protruding shaft (Fig. 2 and 3, line 18). Power driven machines are not part of this invention.
4. This soil invading disk removes weeds close to plants and all weeds between plants, which are spaced a little more than the diameter of the soil invading disk.
5. Weeding is done from a standing position with the soil invader disk attached to a power driven machine such as a weed eater (not part of this invention).
6. This soil invading disk will totally weed most gardens on a single charge of the 12-volt battery (not part of this invention), thereby, saving on fuel and reducing pollution of the environment.
7. This soil invading disk works the soil at a shallow depth without destroying worms or the soil tilth.
8. This soil invading disk can be easily made using a punch press. The disk (Fig 1, Line 10), lugs (Fig 2 and 3, Line 14), and center hole (Fig 1, Line 16) all done in one

operation.

9. This soil invading disk can be made in various diameters to suite the needs of the weeding operation. Orchard weeding will usually need a large diameter disk; whereas, weeding in the garden and around the house will need a small diameter disk.

10. Weeding around the house, under plants, foliage, and bushes may require a small power driven one handed implement (not part of this invention) with a 2-1/2-inch diameter or larger soil invading disk attached.

11. This soil invading disk will quickly mix fertilizers and soil adamants into the top soil next to plants.

12. This soil invading disk will dig shallow trenches for planting.